Author Index

Anders, R.F., see Peterson, M.G., 291

Bacchi, C.J., see Ghoda, L.Y., 109
Bacchi, C.J., see Yarlett, N., 1
Barnwell, J.W., see Howard, R.J., 207
Battistutta, D., see Saul, A., 35
Beach, D., see Gomez-Eichelmann, M.C., 143
Beck, E., see Klinkert, M.-Q., 233
Benne, R., see De Vries, B.F., 71
Bhattacharya, A., see Bhattacharya, S., 257
Bhattacharya, S., Bhattacharya, A. and Diamond, L.S.
Comparison of repeated DNA from strains of *Entamoeba histolytica* and other *Entamoeba*, 257
Board, P.G., see Smith, D.B., 249
Bradley, S., see Linstead, D.J., 125
Brakenhoff, J.P.J., see De Vries, B.F., 71
Braun-Breton, C., see Matei, D., 171
Britto, C., see DeGrave, W., 63
Brown, G.V., see Peterson, M.G., 291
Buckwitz, D., Jacobasch, G., Gerth, C., Holzhütter, H.-G. and Thamm, R.
A kinetic model of phosphofructokinase from *Plasmodium berghei*. Influence of ATP and fructose-6-phosphate, 225
Bugledich, E.M.A., see Gero, A.M., 159

Cardoso, M.A.B., see DeGrave, W., 63
Castañeda, M., see Hernández, R., 275
Chang, K.-P., see Chaudhuri, G., 43
Chang, K.-P., see Kink, J.A., 181
Chaudhuri, G. and Chang, K.-P.
Acid protease activity of a major surface membrane glycoprotein (gp63) from *Leishmania mexicana* promastigotes, 43
Coppel, R.L., see Peterson, M.G., 291
Court, J.P., Murgatroyd, R.C., Livingstone, D. and Rahr, E.
Physicochemical characteristics of non-electrolytes and their uptake by *Brugia pahangi* and *Dipetalonema viteae*, 101
Cruz, F.S., see Docampo, R., 241

Davern, K.M., see Smith, D.B., 249
De Vries, B.F., Mulder, E., Brakenhoff, J.P.J., Sloof, P. and Benne, R.
The variable region of the *Trypanosoma brucei* kinetoplast maxicircle: sequence and transcript analysis of a repetitive and a non-repetitive fragment, 71
DeGrave, W., Fragoso, S.P., Britto, C., Van Heuverswyn, H., Kidane, G.Z., Cardoso, M.A.B., Mueller, R.U., Simpson, L. and Morel, C.M.
Peculiar sequence organization of kinetoplast DNA minicircles from *Trypanosoma cruzi*, 63
Delplace, P., see Roger, N., 135
De Ree, J.M., see Wesseling, J.G., 313
Devaney, E.
The biochemical and immunochemical characterisation of the 30 kilodalton surface antigen of *Brugia pahangi*, 83
Diamond, L.S., see Bhattacharya, S., 257
Díaz-de Léon, F., see Hernández, R., 275
Docampo, R., Moreno, S.N.J. and Cruz, F.S.
Enhancement of the cytotoxicity of crystal violet against *Trypanosoma cruzi* in the blood by ascorbate, 241
Dore, E., Pace, T., Ponzi, M., Scotti, R. and Frontali, C.
A site of intrinsic bending in a highly repeated element of *Plasmodium berghei* genome, 201
Dubremetz, J.-F., see Mattei, D., 171
Dubremetz, J.-F., see Roger, N., 135

Ellenbogen, B.B., see Ghoda, L.Y., 109
Etges, R. and Mukkada, A.J.
Purification and characterization of a metabolite-regulated pyruvate kinase from *Leishmania major* promastigotes, 281

Felleisen, R., see Klinkert, M.-Q., 233
Fortier, B., see Roger, N., 135
Fragoso, S.P., see DeGrave, W., 63
Frontali, C., see Dore, E., 201

Garofalo, J., see Ghoda, L.Y., 109
Gero, A.M., Bugledich, E.M.A., Paterson, A.R.P. and Jamieson, G.P.
Stage-specific alteration of nucleoside membrane permeability and nitrobenzylthioinosine insensitivity in *Plasmodium falciparum* infected erythrocytes, 159
Gerth, C., see Buckwitz, D., 225
Ghoda, L.Y., Savarese, T.M., Northup, C.H., Parks, Jr., R.E., Garofalo, J., Katz, L., Ellenbogen, B.B. and Bacchi, C.J.
Substrate specificities of 5′-deoxy-5′-methylthioadenosine phosphorylase from *Trypanosoma brucei brucei* and mammalian cells, 109
Gomez-Eichelmann, M.C., Holtz, Jr., G., Beach, D., Simpson, A.M. and Simpson, L.
Comparison of several lizard *Leishmania* species and strains in terms of kinetoplast minicircle and maxicircle DNA sequences, nuclear chromosomes, and membrane lipids, 143
Greenblatt, C.L., see Rosen, G., 93
Guillotte, M., see Mattei, D., 171

Haley, S., see Sternberg, J., 191
Hernández, R., Díaz-de Léon, F. and Castañeda, M.
Molecular cloning and partial characterization of ribosomal RNA genes from *Trypanosoma cruzi*, 275
Holt, E.H., see Perkins, M.E., 23
Holtz, Jr., G., see Gomez-Eichelmann, M.C., 143
Holzhütter, H.-G., see Buckwitz, D., 225
Howard, R.J., Barnwell, J.W., Rock, E.P., Neequaye, J., Ofori-Adjei, D., Maloy, W.L., Lyon, J.A. and Saul, A.
Two approximately 300 kilodalton *Plasmodium falciparum* proteins at the surface membrane of infected erythrocytes, 207

Jacobasch, G., see Buckwitz, D., 225
Jaffe, C.L. and Zalis, M.
Purification of two *Leismania donovani* membrane proteins recognized by sera from patients with visceral leishmaniasis, 53
Jamieson, G.P., see Gero, A.M., 159
Jenni, L., see Sternberg, J., 191

Katz, L., see Ghoda, L.Y., 109
Kidane, G.Z., see DeGrave, W., 63
Kink, J.A. and Chang, K.-P.
N-Glycosylation as a biochemical basis for virulence in *Leishmania mexicana amazonensis*, 181
Kemp, D.J., see Peterson, M.G., 291
Klinkert, M.-Q., Ruppel, A., Felleisen, R., Link, G. and Beck, E.
Expression of diagnostic 31/32 kilodalton proteins of *Schistosoma mansoni* as fusions with bacteriophage MS2 polymerase, 233

Langford, C.J., see Peterson, M.G., 291
Langsley, G., see Mattei, D., 171
Le Page, R.W.F., see Sternberg, J., 191
Leible, M.B., see Wiser, M.F., 11
Link, G., see Klinkert, M.-Q., 233
Linstead, D.J. and Bradley, S.
The purification and properties of two soluble reduced nicotinamide:acceptor oxidoreductases from *Trichomonas vaginalis*, 125
Livingstone, D., see Court, J.P., 101
Londner, M.V., see Rosen, G., 93
Lyon, J.A., see Howard, R.J., 207

Maloy, W.L., see Howard, R.J., 207
Mattei, D., Langsley, G., Braun-Breton, C., Guillotte, M., Dubremetz, J.-F. and Mercereau-Puijalon, O.
The S-antigen of *Plasmodium falciparum* Palo Alto represents a new S-antigen serotype, 171
McIntyre, P., see Peterson, M.G., 291
Mercereau-Puijalon, O., see Mattei, D., 171
Mitchell, G.F., see Smith, D.B., 249
Morel, C.M., see DeGrave, W., 63
Moreno, S.N.J., see Docampo, R., 241
Mueller, R.U., see DeGrave, W., 63
Mulder, E., see De Vries, B.F., 71
Murgatroyd, R.C., see Court, J.P., 101

Neequaye, J., see Howard, R.J., 207
Northup, C.H., see Ghoda, L.Y., 109

O'Sullivan, W.J., see Prapunwattana, P., 119
Ofori-Adjei, D., see Howard, R.J., 207

Pace, T., see Dore, E., 201
Parks, Jr., R.E., see Ghoda, L.Y., 109
Paterson, A.R.P., see Gero, A.M., 159
Perkins, M.E. and Holt, E.H.
Erythrocyte receptor recognition varies in *Plasmodium falciparum* isolates, 23
Peterson, M.G., Coppel, R.L., McIntyre, P., Langford, C.J., Woodrow, G., Brown, G.V., Anders, R.F. and Kemp, D.J.
Variation in the precursor to the major merozoite surface antigens of *Plasmodium falciparum*, 291
Plitt, B., see Wiser, M.F., 11
Ponnudurai, T., see Wesseling, J.G., 313
Ponzi, M., see Dore, E., 201
Prapunwattana, P., O'Sullivan, W.J. and Yuthavong, Y.
Depression of *Plasmodium falciparum* dihydroorotate dehydrogenase activity in in vitro culture by tetracycline, 119

Rahr, E., see Court, J.P., 101
Rock, E.P., see Howard, R.J., 207
Roger, N., Dubremetz, J.-F., Delplace, P., Fortier, B., Tronchin, G. and Vernes, A.
Characterization of a 225 kilodalton rhoptry protein of *Plasmodium falciparum*, 135
Rosen, G., Londner, M.V., Sevlever, D. and Greenblatt, C.L.
Leishmania major: Glycolipid antigens recognized by immune human sera, 93
Rubira, M.R., see Smith, D.B., 249
Ruppel, A., see Klinkert, M.-Q., 233

Saul, A. and Battistutta, D.
Codon usage in *Plasmodium falciparum*, 35
Saul, A., see Howard, R.J., 207
Savarese, T.M., see Ghoda, L.Y., 109
Schoenmakers, J.G.G., see Wesseling, J.G., 313
Schweizer, J., see Sternberg, J., 191
Scotti, R., see Dore, E., 201
Sevlever, D., see Rosen, G., 93
Shippen-Lenz, D.E. and Vezza, A.C.
The three 5S rRNA genes from the human malaria parasite *Plasmodium falciparum* are linked, 263
Simpson, A.M., see Gomez-Eichelmann, M.C., 143
Simpson, L., see DeGrave, W., 63
Simpson, L., see Gomez-Eichelmann, M.C., 143
Simpson, R.J., see Smith, D.B., 249
Sloof, P., see De Vries, B.F., 71
Smith, D.B., Rubira, M.R., Simpson, R.J., Davern, K.M., Tiu, W.U., Board, P.G. and Mitchell, G.F.
Expression of an enzymatically active parasite molecule in *Escherichia coli: Schistosoma japonicum* glutathione *S*-transferase, 249
Smith, M.A., see Snary, D., 303
Smits, M.A., see Wesseling, J.G., 313
Snary, D. and Smith, M.A.
Sequence homology of surface membrane proteins of *Babesia rodhaini*, 303
Sternberg, J., Tait, A., Haley, S., Wells, J.M., Le Page, R.W.F., Schweizer, J. and Jenni, L.
Gene exchange in African trypanosomes: characterisation of a new hybrid genotype, 191

Tait, A., see Sternberg, J., 191
Thamm, R., see Buckwitz, D., 225
Tiu, W.U., see Smith, D.B., 249
Tronchin, G., see Roger, N., 135

Van Heuverswyn, H., see DeGrave, W., 63
Vernes, A., see Roger, N., 135
Vezza, A.C., see Shippen-Lenz, D.E., 263

Wells, J.M., see Sternberg, J., 191
Wesseling, J.G., de Ree, J.M., Ponnudurai, T., Smits, M.A. and Schoenmakers, J.G.G.
Nucleotide sequence and deduced amino acid sequence of a *Plasmodium falciparum* actin gene, 313
Wiser, M.F., Leible, M.B. and Plitt, B.
Acidic phosphoproteins associated with the host erythrocyte membrane of erythrocytes infected with *Plasmodium berghei* and *P. chabaudi*, 11
Woodrow, G., see Peterson, M.G., 291

Yarlett, N. and Bacchi, C.J.
Effect of DL-α-difluoromethylornithine on methionine cycle intermediates in *Trypanosoma brucei brucei*, 1
Yuthavong, Y., see Prapunwattana, P., 119

Zalis, M., see Jaffe, C.L., 53

Subject Index

N-Acetylglucosamine-l-phosphate transferase, 181
Acid protease, 43
Actin, 313
S-Adenosyl-L-methionine, 1
Allosteric activation, 281
S-Antigen, 171
Antigenic variability, 291
Ascorbyl radical, 241
ATP inhibition, 225

Babesia rodhaini, 303
Bent helix, 201
Brugia pahangi, 82, 101

Chemotherapy, 159
Chromosome, 143
Codon usage, 35, 313
Complement C3 degradation, 43
Cooperative activation, 281
Crithidia, 281
Crystal violet, 241
Cutaneous leishmaniasis, 93
Cytoadherence, 207

DL-α-Difluoromethylornithine, 1
Dihydroorotate dehydrogenase, 119
Dipetalonema viteae, 101
Divergent maxicircle region, 71
cDNA cloning, 303
DNA sequences, 35
Drug design, 101

Electroblotting, 249
ELISA, 233
Entamoeba histolytica, 257
Entamoeba, 157
Enzyme properties, 125
Enzyme purification, 125
Epicuticle, 83
Erythrocyte membrane, 11
Erythrocyte receptor, 23
Erythrocyte surface, 207
Expression in *Escherichia coli*, 233

Filariae, 101

Gene duplication, 303
Gene linkage, 263
Genetic exchange, 191
Glutathione *S*-transferase, 249
Glycolipid antigens, 93
Glycoprotein, 181

Homology, 313
Hybrid phenotype and genotype, 191
Hydrogen peroxide, 241

Immunodiagnosis, 53
Interspecies comparison, 313
In vitro release, 83
Isolate variation, 23

Kinetic model, 225
Kinetoplast DNA, 71
Kinetoplast DNA sequence, 63

Leishmania, 181, 281
Leishmania donovani, 53
Leishmania major, 93
Leishmania mexicana amazonensis, 43
Leishmania tarentolae, 143
Lipid, 143
Lizard, 143

Macrophage, 181
Malaria, 171
Malarial antigen, 207
[^{3}H]Mannose, 181
Maxicircle DNA, 143
Membrane cytoskeleton, 11
Membrane protein purification, 53
Merozoite, 135
Merozoite surface, 291
Metabolic labelling, 83
5′-Methylthioadenosine metabolism, 109
5′-Methylthioadenosine phosphorylase, 109
Minicircle DNA, 63, 143
Mitochondrial genes, 71
Monoclonal antibody, 135, 207
Monod model, 225
MS2–*S. mansoni* fusion proteins, 233

Nitrobenzylthioinosine, 159
Non-electrolyte uptake, 101
Nuclear DNA content, 191
Nucleoside uptake, 159

Oxygen tolerance, 125

Parasite enzyme, 249
Patient sera, 53
pH, 225
Phosphofructokinase, 225
Phosphoprotein, 11
Physicochemical parameter, 101
Plasmid molecular cloning, 275
Plasmodium berghei, 11, 225
Plasmodium berghei DNA, 201
Plasmodium chabaudi, 11
Plasmodium falciparum, 23, 35, 119, 135, 159, 171, 207, 263, 291, 313
Polypeptide, 30 kDA, 83
Protein expression in *Escherichia coli*, 249

Protein sequence analysis, 249
Purine nucleoside hydrolase, 109
Pyruvate kinase, 281

Reduced nicotinamide oxidoreductases, 125
Repetitive DNA, 71, 257
Repetitive family, 201
Restriction mapping, 275
Rhoptry, 135
Ribosomal DNA, 257
5S rRNA, 263

Schistosomiasis, 249
Schizont, 135
Sequence homology, 303
Superoxide anion, 241
Surface antigen, 83
Surface glycoprotein, 43
Surface membrane, 303

Taxonomy, 257
Tetracycline, 119
Thin layer chromatography, 93
Transmethylation, 1
Trichomonas vaginalis, 125
Trypanosoma, 281
Trypanosoma brucei, 191
Trypanosoma brucei brucei, 1, 109
Trypanosoma cruzi, 63, 241
Trypanosoma cruzi rDNA, 275
Trypanosomes, 71
Tubercidin, 159
Tunicamycin, 181

Virulence, 43, 181